



# Durable Goods Labelling Compliance

“ Durable goods require labels that give crucial instructions, product details and safety information. The labels have to stay in place and remain legible for the entire lifespan of an item - which can be a demanding labelling challenge. ”

Choosing a pre-tested and compliant labelling material means added reassurance for converters and a simpler and faster route to adoption for end users. This document summarises the commonly used standards and specifications for durable goods labelling, and shows a wide range of compliance-tested Avery Dennison materials. Please contact your sales representative if you need any additional information or further testing support.

The biggest subsegments in which common regulations and specifications apply are electronics & appliances and automotive.





# Electronics & Appliances

## UL AND C-UL

UL (formerly Underwriters Laboratories Inc.) is a US-based safety consulting company established in 1894. Goods and components to be sold in the US must be UL-recognised for safety. The company not only tests and certifies products in its laboratories, but also defines standards and writes specifications.



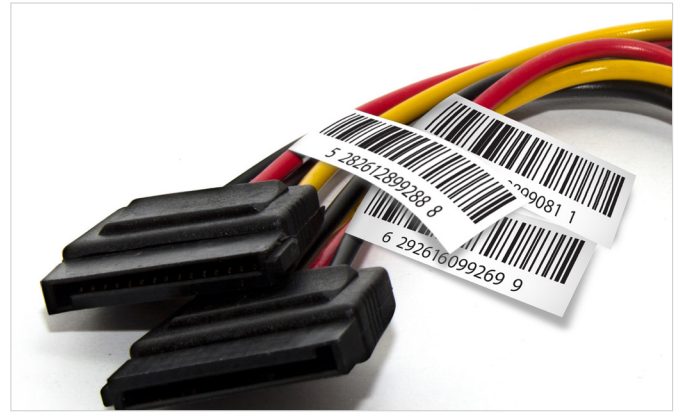
UL understands that safety-related labels are critical to the overall product safety. It sets out relevant requirements in the standard UL 969 ("Standard for Marking and Labeling Systems"). This focuses especially on the permanence of adhesion and legibility after different exposure conditions. Converters supplying labels for use with a UL-recognised product in the US must meet all relevant UL requirements.

In Canada, labels must comply with CSA standard 22.2 no. 0.15 ("Adhesive Labels"). UL also tests and recognises labels according to this standard, which are then C-UL recognised.

## UL FOR CABLE LABELS

Whereas UL 969 is applicable only to labels on smooth and flat surfaces cables and wire labelling is evaluated against different UL standards, and Avery Dennison offers materials that comply with the following standards:

- > UL 817 – cord sets and power supply cords
- > UL 2238 – cable assemblies and fittings for industrial control and signal distribution



## CHEMICAL RUB TEST OF PRINTED LABELS

A marking durability rub test is often needed for labels on electronic and electrical goods. A visual examination assesses the label's legibility and adhesion after rubbing the labels with a cloth that has been soaked in any of a variety of liquid(s) including petroleum spirit (hexane), water, methylated spirit (ethyl alcohol denatured with methanol) and isopropyl alcohol. The liquid and rubbing duration will vary by standard (for example VDE 0711, ICE 60335-1, IEC 60950-1 and DIN 75302).

Avery Dennison has tested printed samples according to the widely used specification ICE 60335-1 (7.14). This involves rubbing a label for 15 seconds with a cloth soaked in water, drying, and then rubbing for 15 seconds with a cloth soaked in n-hexane.

Electrical medical equipment labels are tested for chemical resistance according to IEC 60601-1. This involves rubbing printed samples for 15 seconds with a cloth soaked with water, followed by 15 seconds with methylated spirit and finally 15 seconds with IPA.





Need more information?

Speak to your local **Avery Dennison** representative today -  
email us at [durableshelp@averydennison.com](mailto:durableshelp@averydennison.com)

#### **WARRANTY:**

The information in this document is based on test results, and represents our best understanding of compliance requirements. While this summary can help with the selection of durable goods labelling materials, the final responsibility for testing under real-world conditions rests with the converter or end user.

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